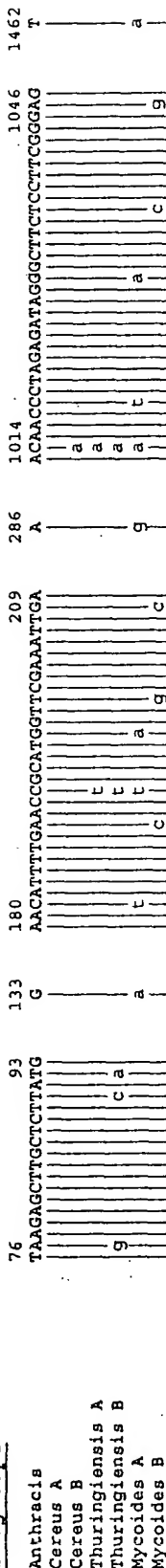


FIG.1

A

Subgroups



B

Reference microorganisms

B. anthracis str. Ames
B. thuringiensis str. B8
B. cereus str. NCTC9620
B. cereus str. T
B. thuringiensis str. 40281
B. medusa str. ATCC25621
B. mycoides str. ATCC6462m
B. mycoides str. ATCC10206



c-ps1_GAGCGAATGGATTAGAGCT c-SB1
c-ps2_GAGCGAATGGATTAGAGCT c-#41

Thuringiensis B

c-ps3_AGCTTGCTCTTATGAGTTA c-SB15
c-ps4_AGCTTGCTCTTATGAGTTA c-SB16
c-ps5_TGCTCTTATGAGTTAGCGG c-SB4
c-ps6_TGCTCTTATGAGTTAGCGG c-SB4-1

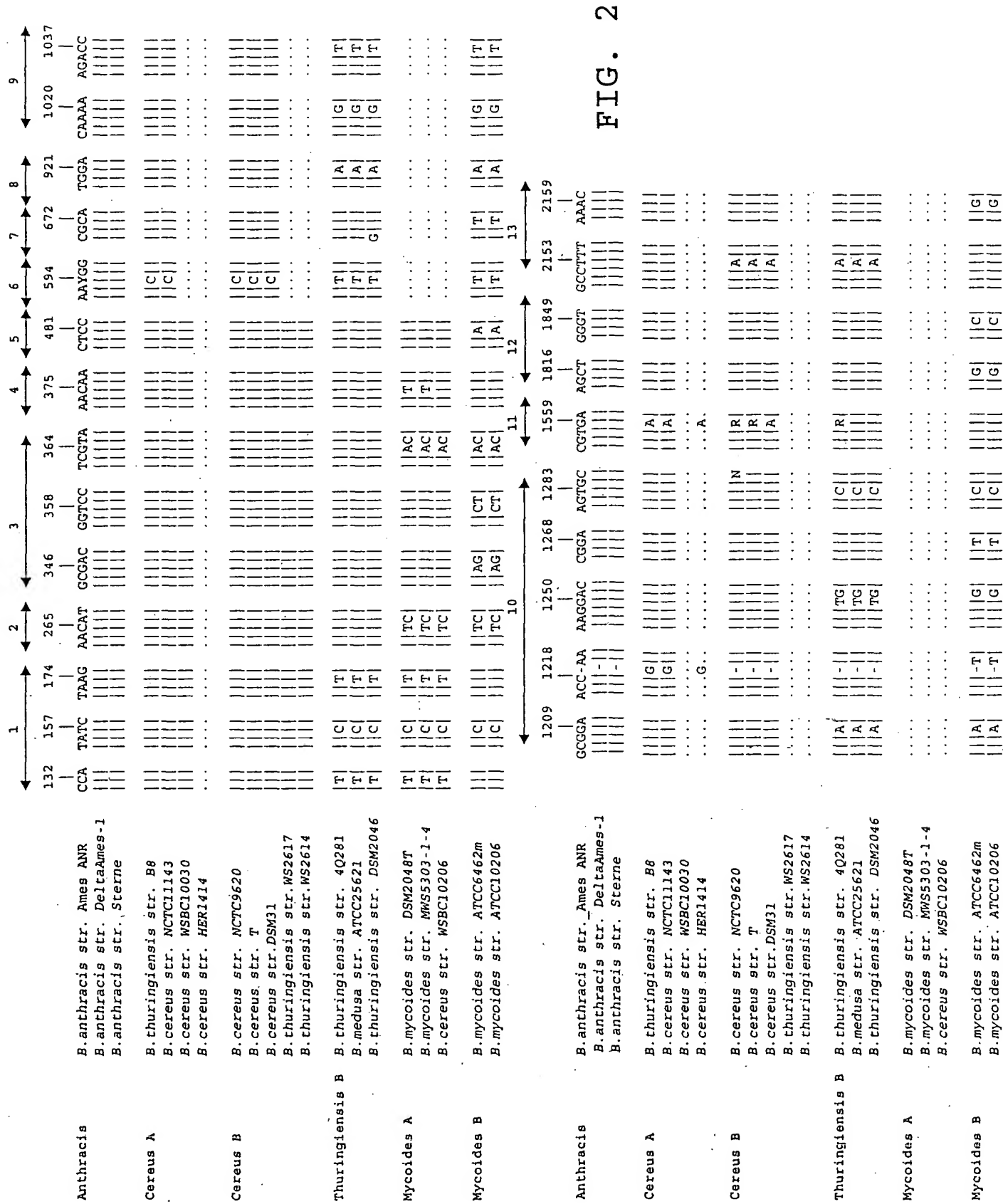
Thuringiensis A + B

Mycoides B

c-ps7_CATTGGAACCGCATGGTTC c-SB12
c-ps8_CATTGGAACCGCATGGTTC c-#44
c-ps9_CATTGGAACCGCATGGTTC c-SB12
c-ps10_CATTGGAACCGCATGGTTC c-SB17
c-ps11_AACCGCATGGTTCGAAATTG c-SB9
c-ps12_CACCGCATGGTTCGAAATTG c-SB8
c-ps13_ATGGTTCGAAATTGAAAGGC c-SB10
c-ps14_ATGGTTCGAAATTGAAAGGC c-SB11
c-ps15_GAAATTGAAAGGCCTTCG c-#54
c-ps16_GAAATTGAAAGGCCTTCG c-SB25

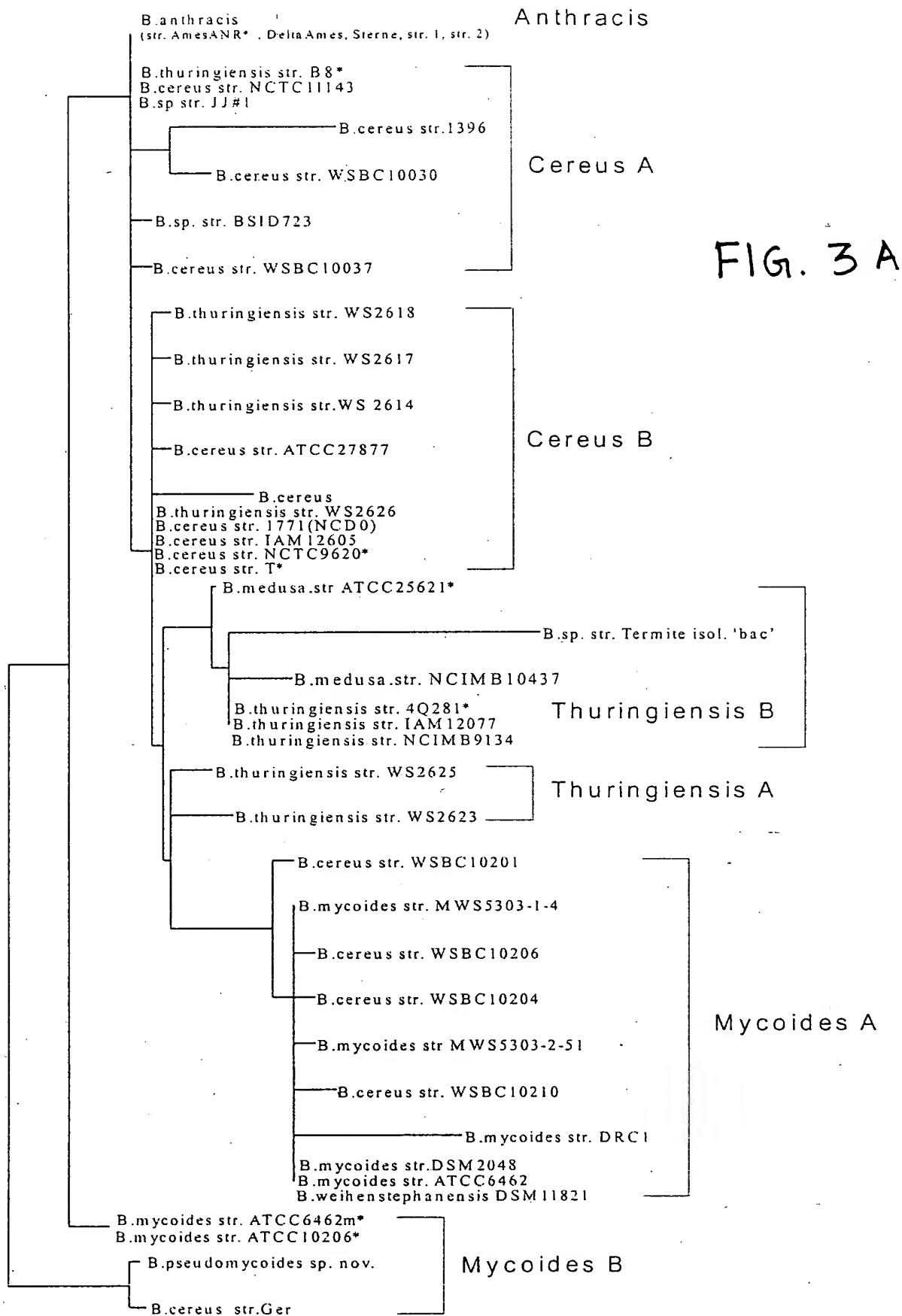
Anthraxis, Cereus A +
c-ps17_CATCCTCTGACACCTAGA c-SB23
c-ps18_CATCCTCTGACACCTAGA c-SB22

Mycoides B
c-ps19_GCTTCTCTTTCGGGAGCAGA c-SB26
c-ps20_GCTTCTCTTTCGGGAGCAGA c-SB27



Cereus A

[c-ps23__TGATACC-AATGGTATCAGTG c-B11
c-ps24__TGATACCGAATGGTATCAGTG c-B12
c-ps21__TTATCGTGAAGGCTGAGCTG c-C11
c-ps22__TTATCGTGAAGGCTGAGCTG c-C12]



B.anthraxis str. Ames ANR*
B.anthraxis str. Delta Ames
B.anthraxis str. Sterne

Anthraxis

FIG. 3B

B.thuringiensis str. B8*
B.cereus str. NCTC11143

Cereus A

B.cereus str. DSM31

Cereus B

B.cereus str. T*
B.cereus str. NCTC9620*

B.thuringiensis str. 4Q281*

Thuringiensis B

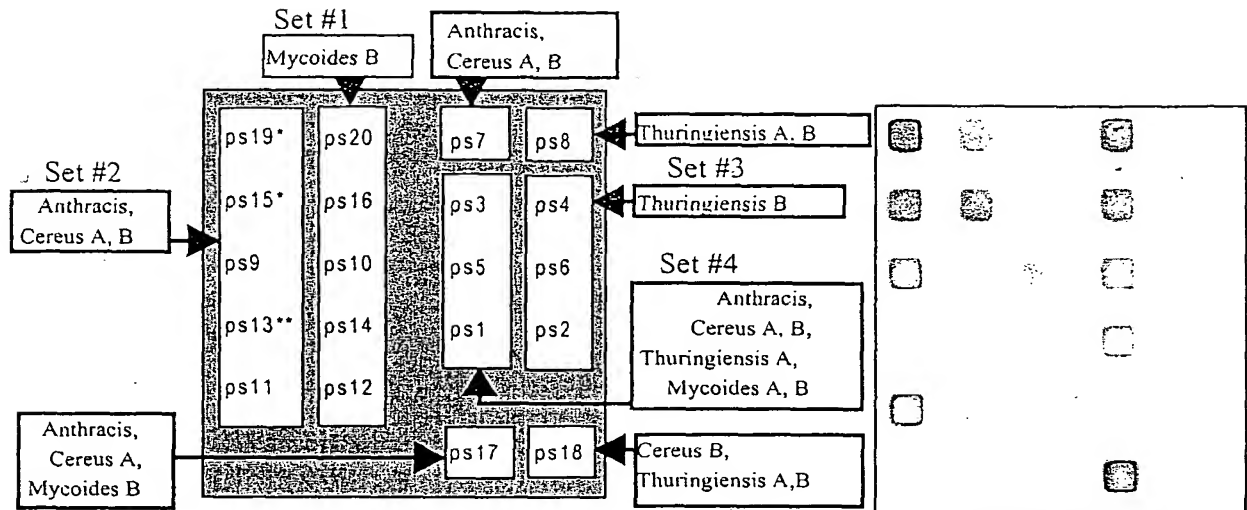
B.medusa str ATCC25621*

B.thuringiensis str. DSM2046

B.mycoides str ATCC6462m*
B.mycoides str ATCC10206*

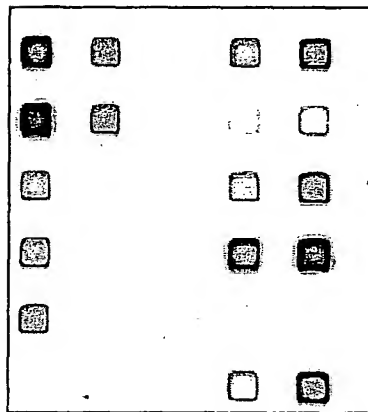
Mycoides B

FIG. 4

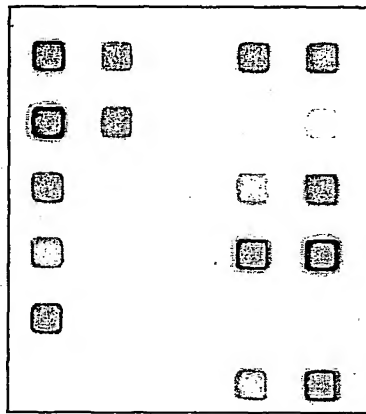


* - also gives perfect with Thuringiensis A,B and Mycoides A
 ** - also gives perfect with Thuringiensis A,B

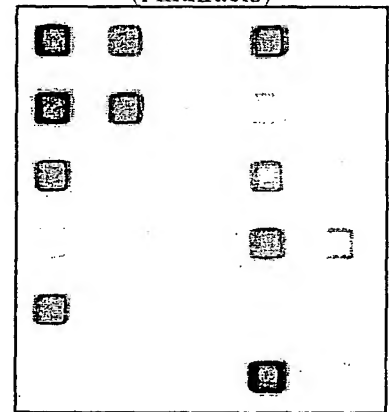
B,anthracis AMES
 (Anthracis)



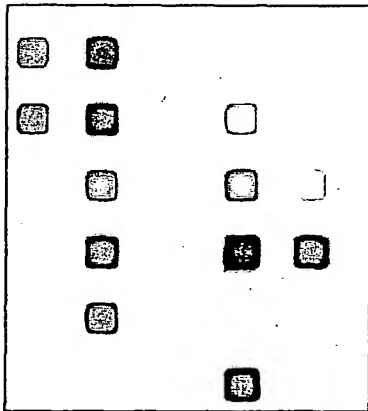
B.thuringiensis 4Q281
 (Thuringiensis B)



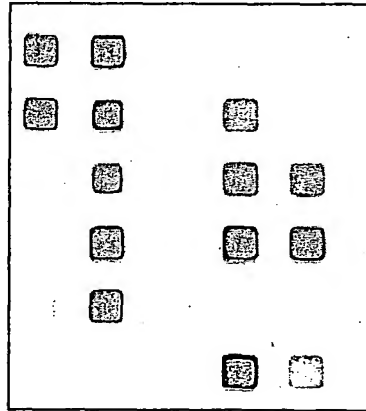
B.medusa ATCC25621
 (Thuringiensis B)



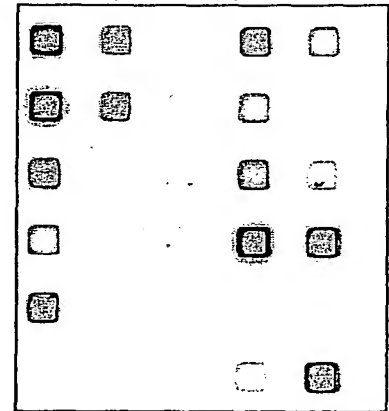
B.thuringiensis B8
 (Cereus A)



B.mycoides ATCC6462
 (Mycoides B)



B.mycoides ATCC10206
 (Mycoides B)



B.cereus T
 (Cereus B)

FIG. 5A










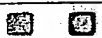





	ps21/ps22	ps21/ps22 signal ratio	site 1559 in 23S rRNA	G/A ratio in site 1559
<i>B. anthracis</i> Ames (Anthraxis)		1.80	G	-
<i>B. mycoides</i> ATCC10206 (Mycoides B)		1.50	G	-
<i>B. cereus</i> T (Cereus B)		1.00	R	1.5
<i>B. thuringiensis</i> 4Q281 (Thuringiensis B)		0.72	R	1
<i>B. cereus</i> NCTC9620 (Cereus B)		0.64	R	0.3
<i>B. thuringiensis</i> B8 (Cereu A)		0.45	A	-

FIG. 5B

Subgroup		ps21/ps22	ps21/ps22 signal ratio	ps23/ps24	ps23/ps24 signal ratio	ps18/ps17	ps18/ps17 signal ratio
Cereus A	<i>B. cereus</i> HER 1414		0,7		0,7		0,2
	<i>B. thuringiensis</i> B8		0,4		0,4		0,2
Anthracis	<i>B. anthracis</i> Sterne		2,2		1,7		0,2

A

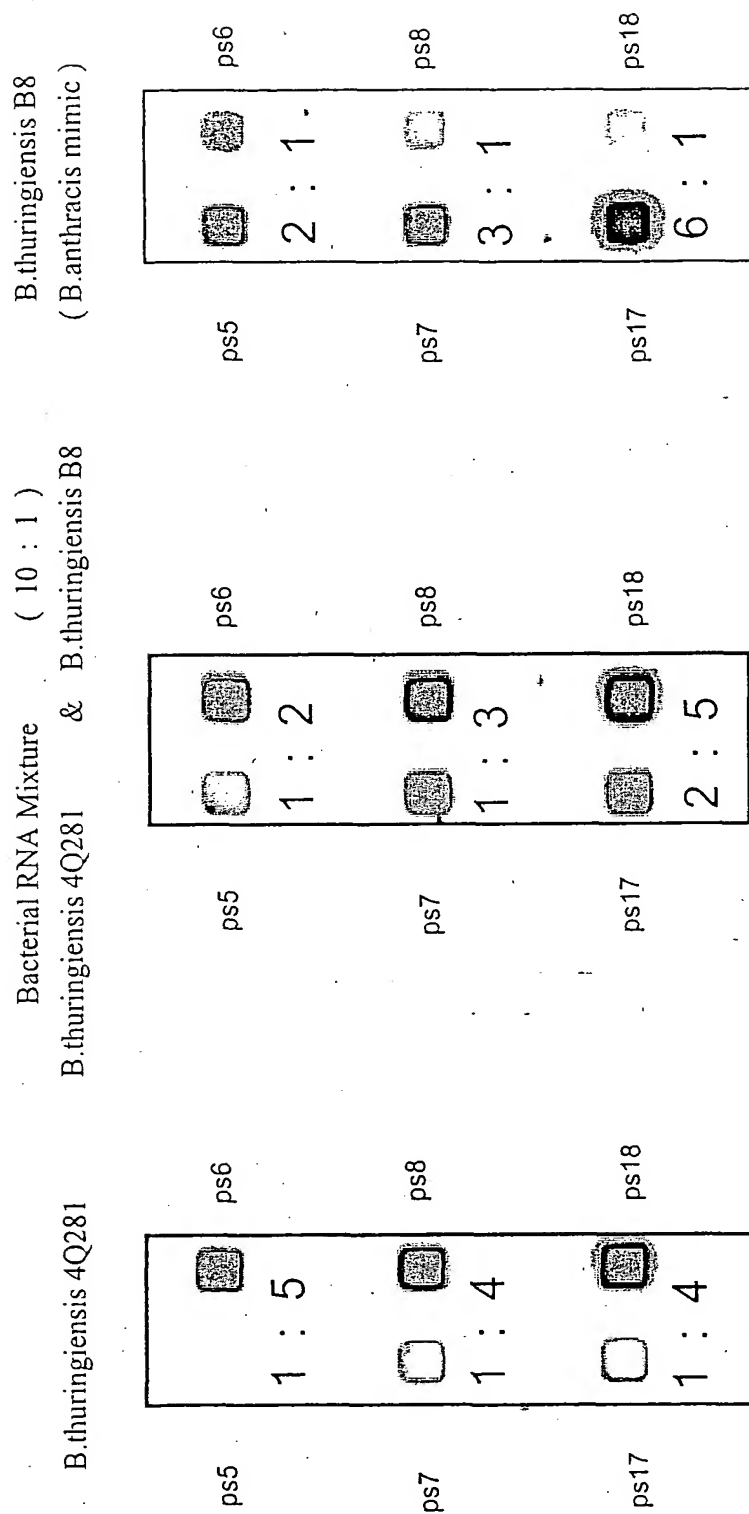
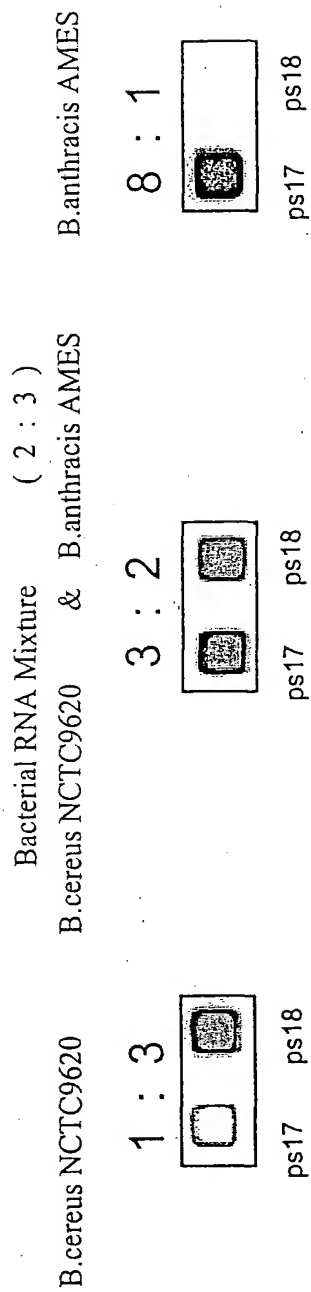












FIG. 7

Microorganism	Cereus group	Subtilis group	Signal ratio
B.anthraxis AMES			9.5
B.cereus T			8.3
B.mycoides ATCC6462m			7.8
B.thuringiensis 4Q281			8.1
B.subtilis B-459			0.4

ps 25

ps 26

FIG. 8

23F1 not Myc A B	23F2 Myc A, B	#54 not Myc B	SB25 Myc B	B1 Antr. Cer A B	B2 Thur B, Myc B	SB22 not Antr, Cer A, Myc B	SB23 Antr. Cer A, Myc B	A1 not Thur B, Myc A
23F5 not Myc A	23F6 Myc A	SB10 not Myc B	SB11 Myc B	B7 Antr. Cer A B	B8 Thur B, Myc B	B11 Antr.	B12 Cer A	A2 Thur B, Myc A
23F7 not Myc A	23F8 Myc A		E7 Hybrid Marker	C5 Antr. Cer A B	C6 Thur B, Myc B	C9 Antr.	C10 Cer A	A5 not Thur B, Myc A
16A1 not Myc A	16A2 Myc A	A7 not Myc B	A8 Myc B	C7 Antr. Cer A B	C8 Thur B, Myc B		E7 Hybrid Marker	A6 Thur B, Myc A
16A3 not Myc A	16A4 Myc A	23F3 not Myc B	23F4 Myc B	A3 Antr. Cer A B	A4 Thur B, Myc B	C11 Antr.	C12 Cer A	A9 not Thur B, Myc B
16A5 not Myc A	16A6 Myc A	E7 Hybrid Marker				SB12 Bimed not Thur A B	#44 Thur A, B	A10 Thur B, Myc B
16A7 not Myc A	16A8 Myc A	SB23 Antr. Cer A, Myc B	SB22 not Antr, Cer A, Myc B	23F13 Antr.	23F14 Cer A	SB15 not Thur B	SB16 Thur B	A11 not Thur B, Myc B
16A9 not Myc A	16A10 Myc A	D1 Antr. Cer A, Myc B	D2A not Antr, Cer A, Myc B	23F15 Antr.	23F16 Cer A	SB4 not Thur B	SB4-1 Thur B	A12 Thur B, Myc B